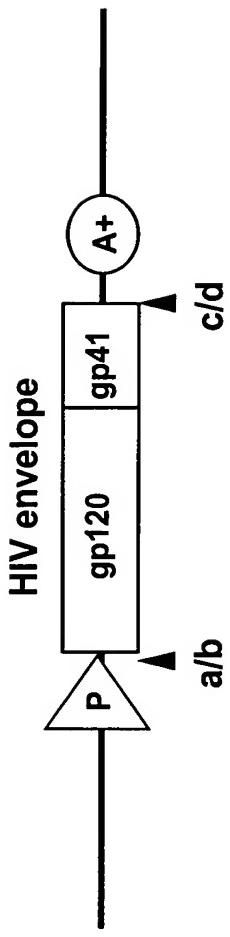


PhenoSense HIV Entry Assay

Envelope Expression Vector: pHIVenv



HIV-1 Expression Vector: pHIVlucΔU3

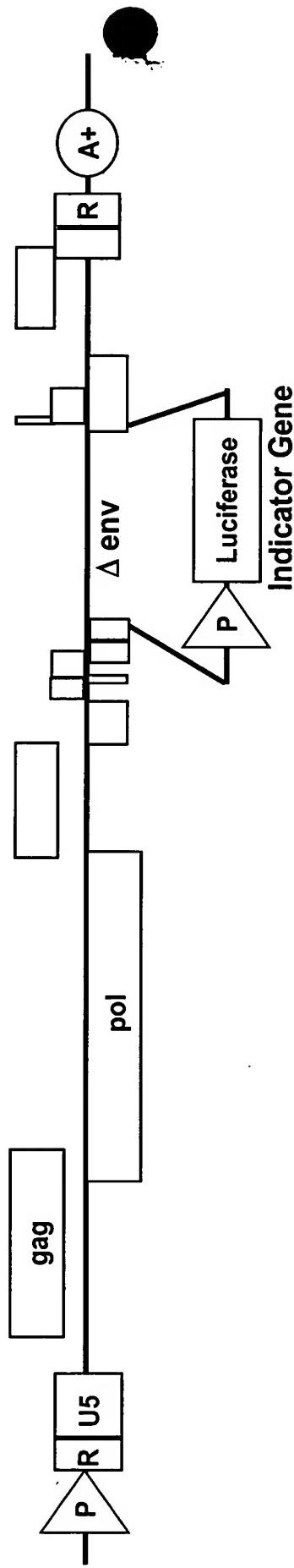
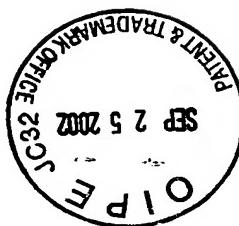


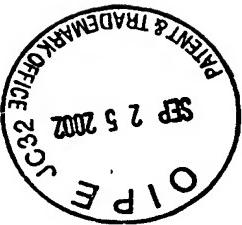
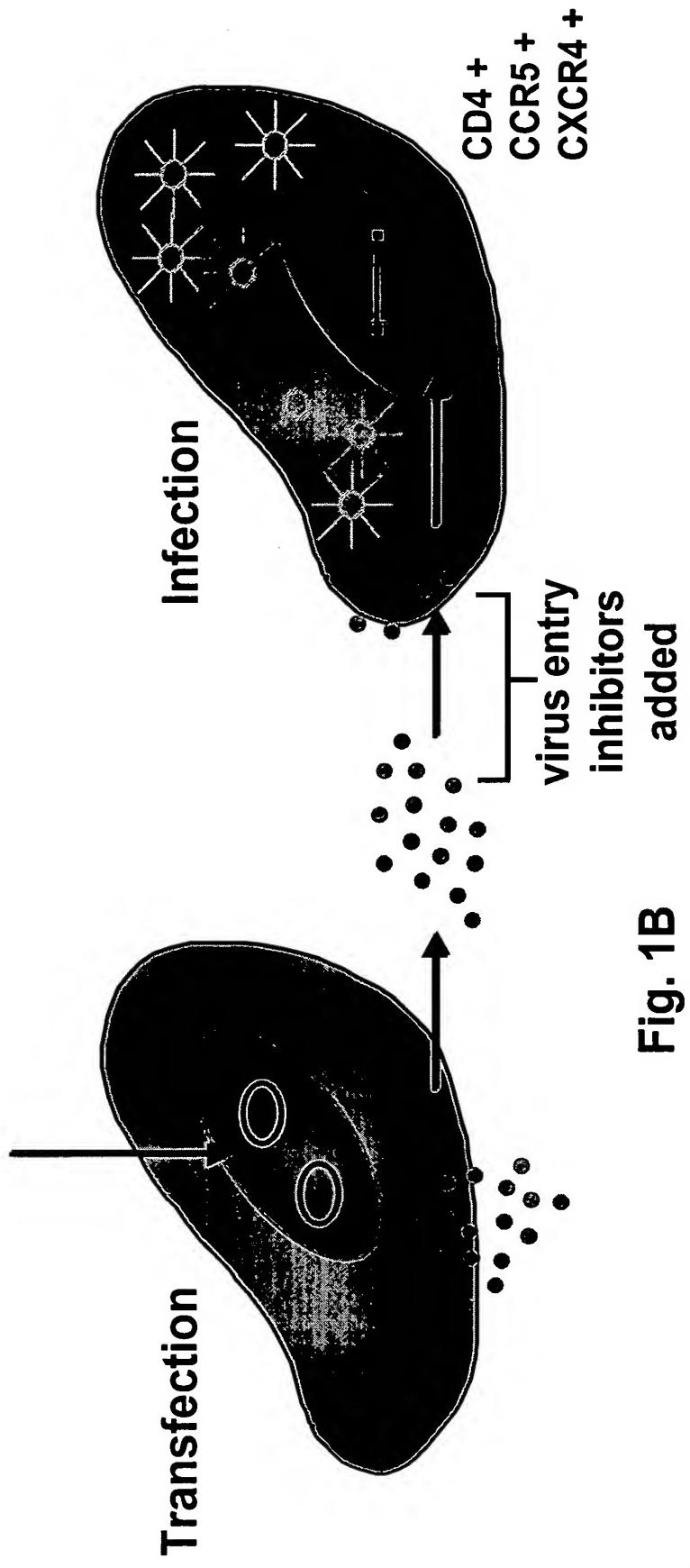
Fig. 1A



PhenoSense™ HIV: Cell Assay

pHIV_{env}
DNA

+
pHIVlucΔU3
DNA



HIV Envelope Expression Strategies

U.S. Patent and Trademark Office

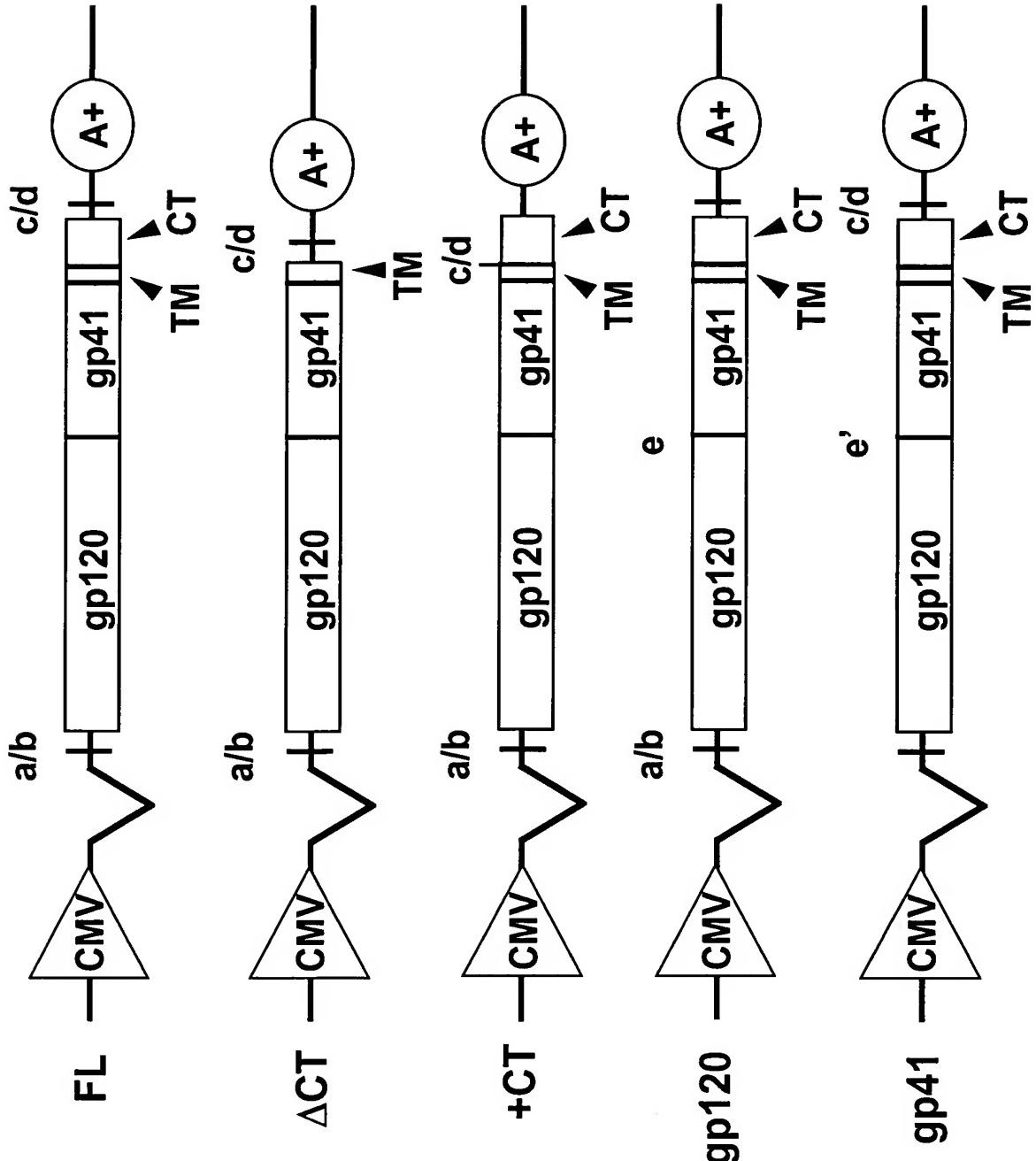
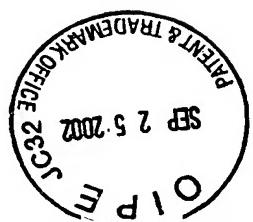


Fig. 2



Co-Receptor Tropism Screen

CCR5-expressing cells

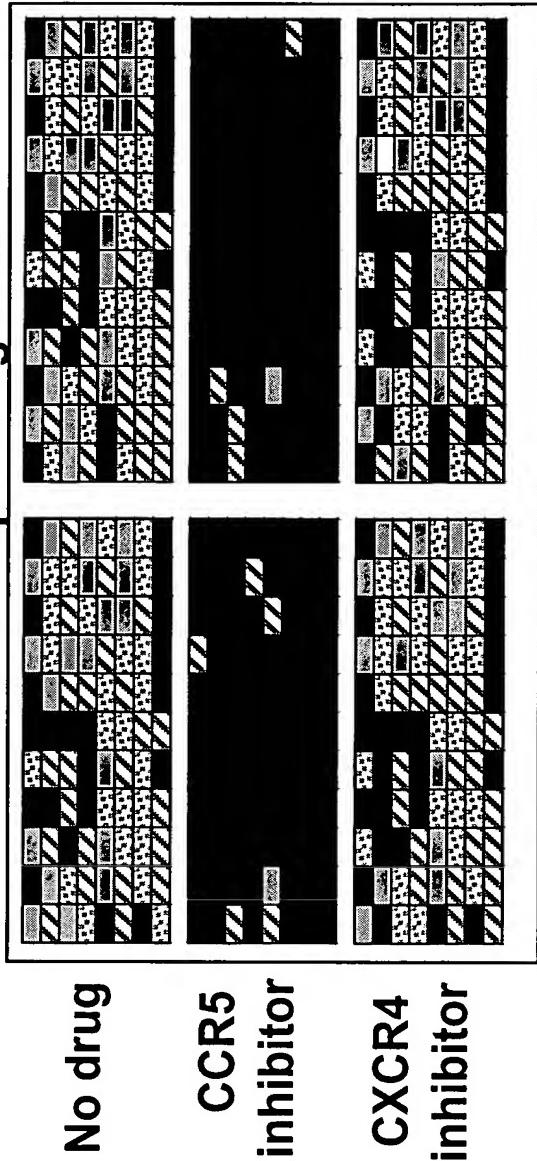
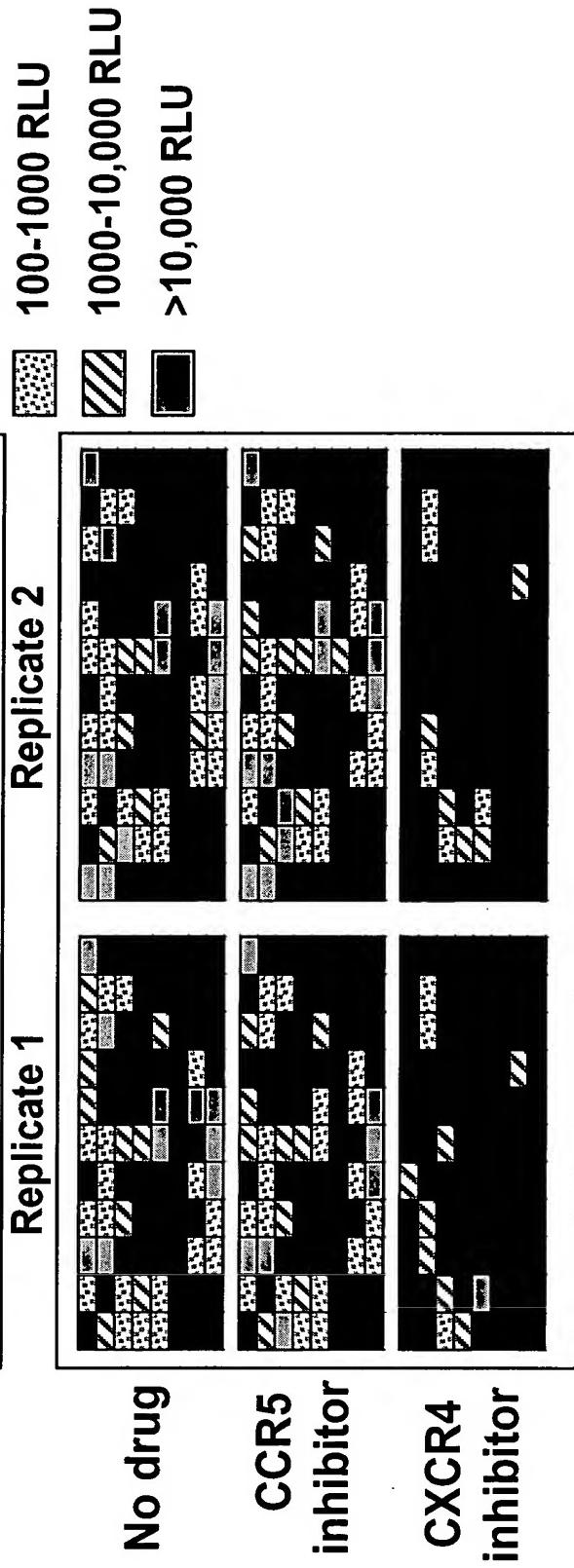
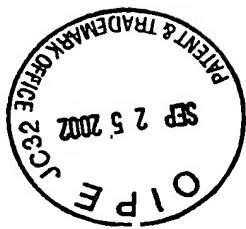


Fig. 3A



CXCR4-expressing cells



Co-Receptor Tropism Assay Interpretation

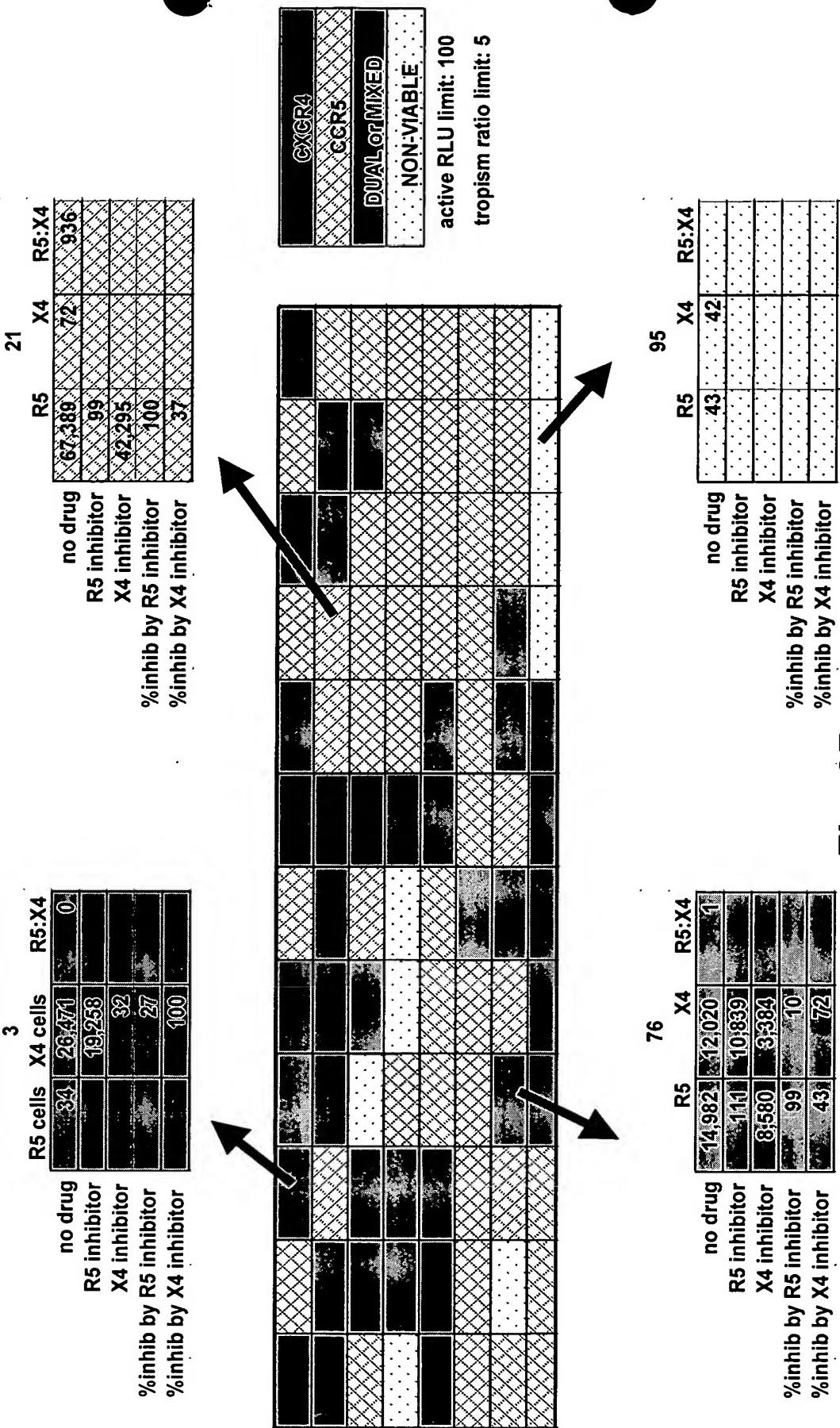


Fig. 3B



Entry Inhibitor Susceptibility: Fusion Inhibitor

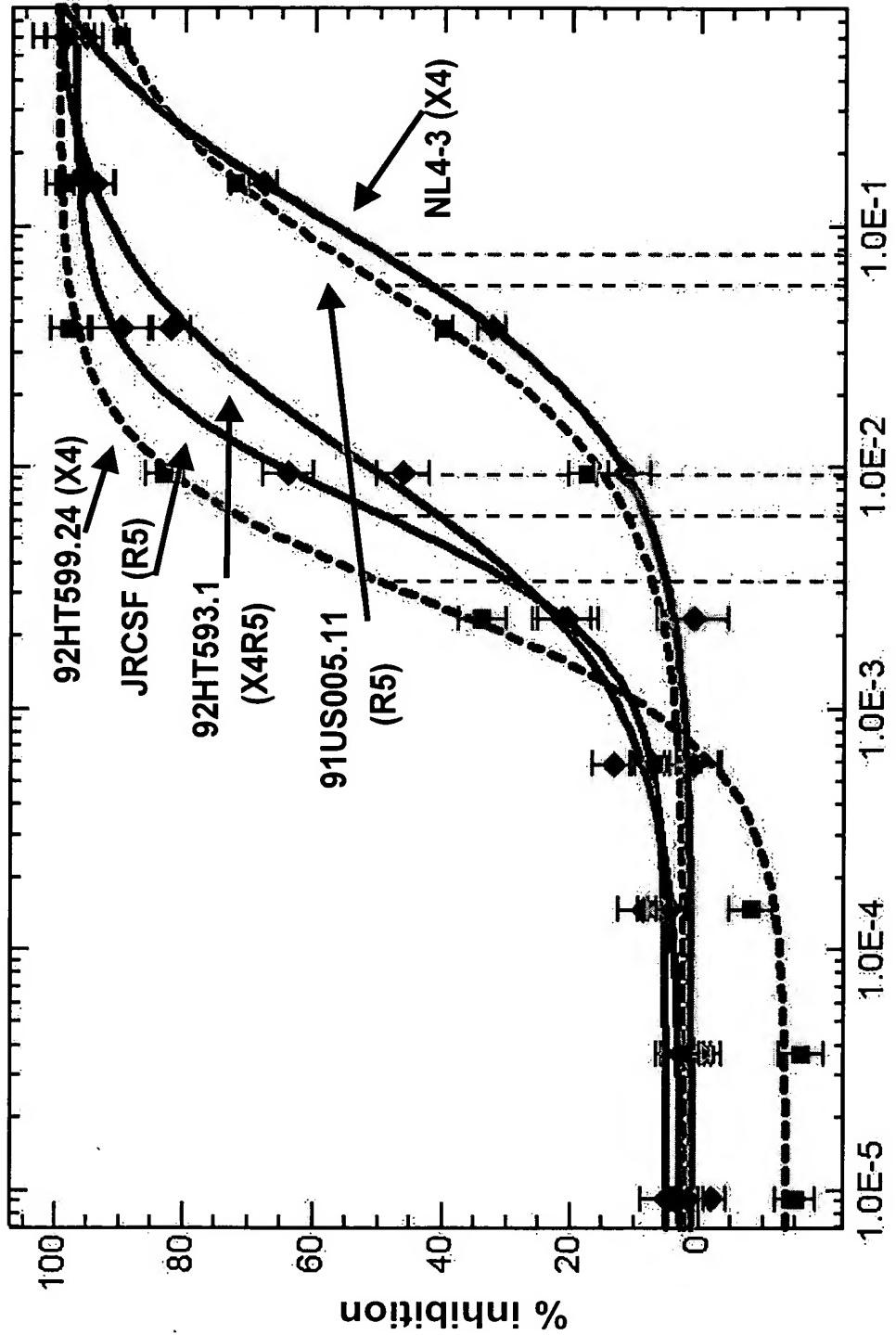


Fig. 4A



20050000000000000000

Reduced Susceptibility: Fusion Inhibitor

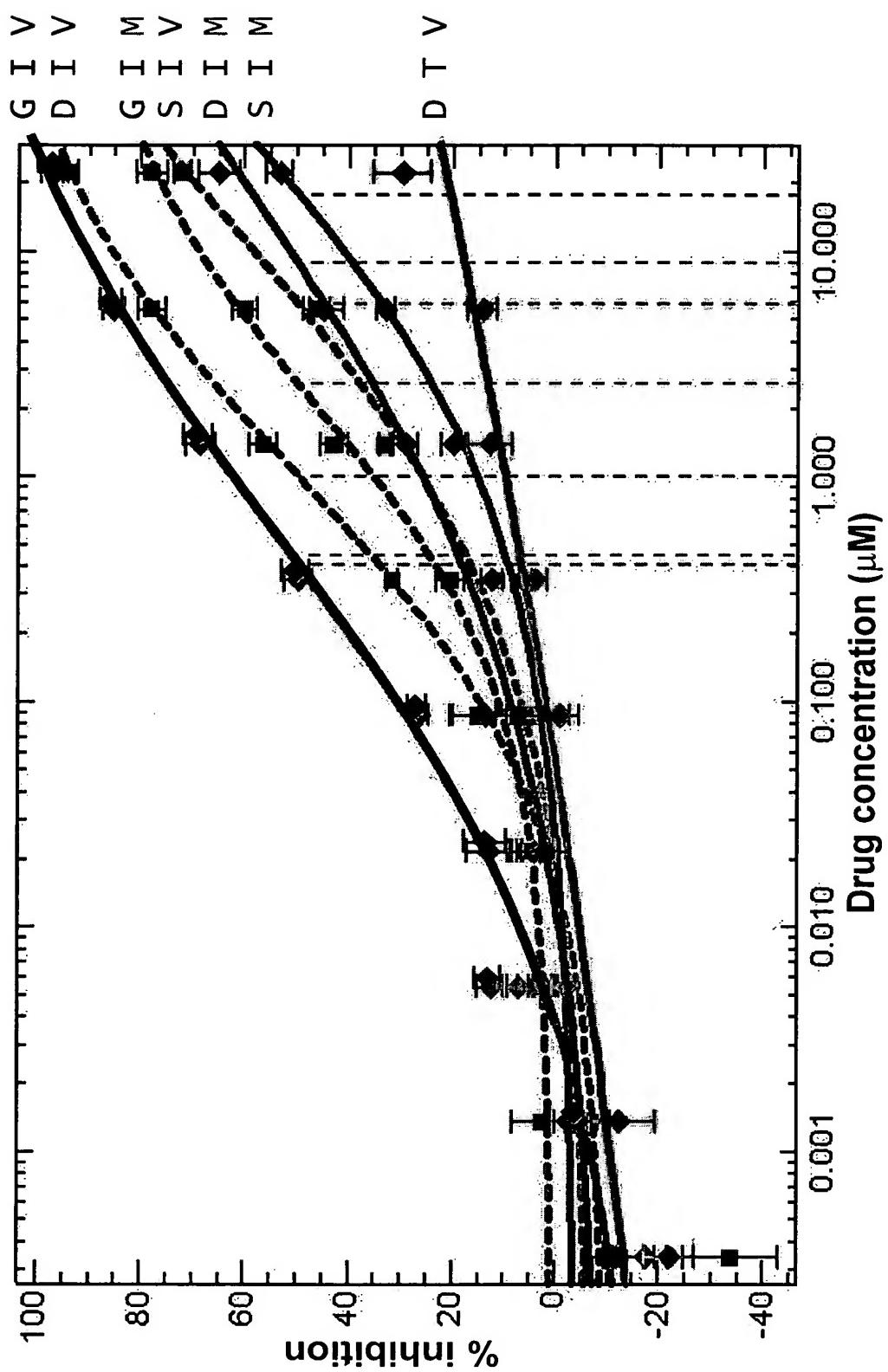


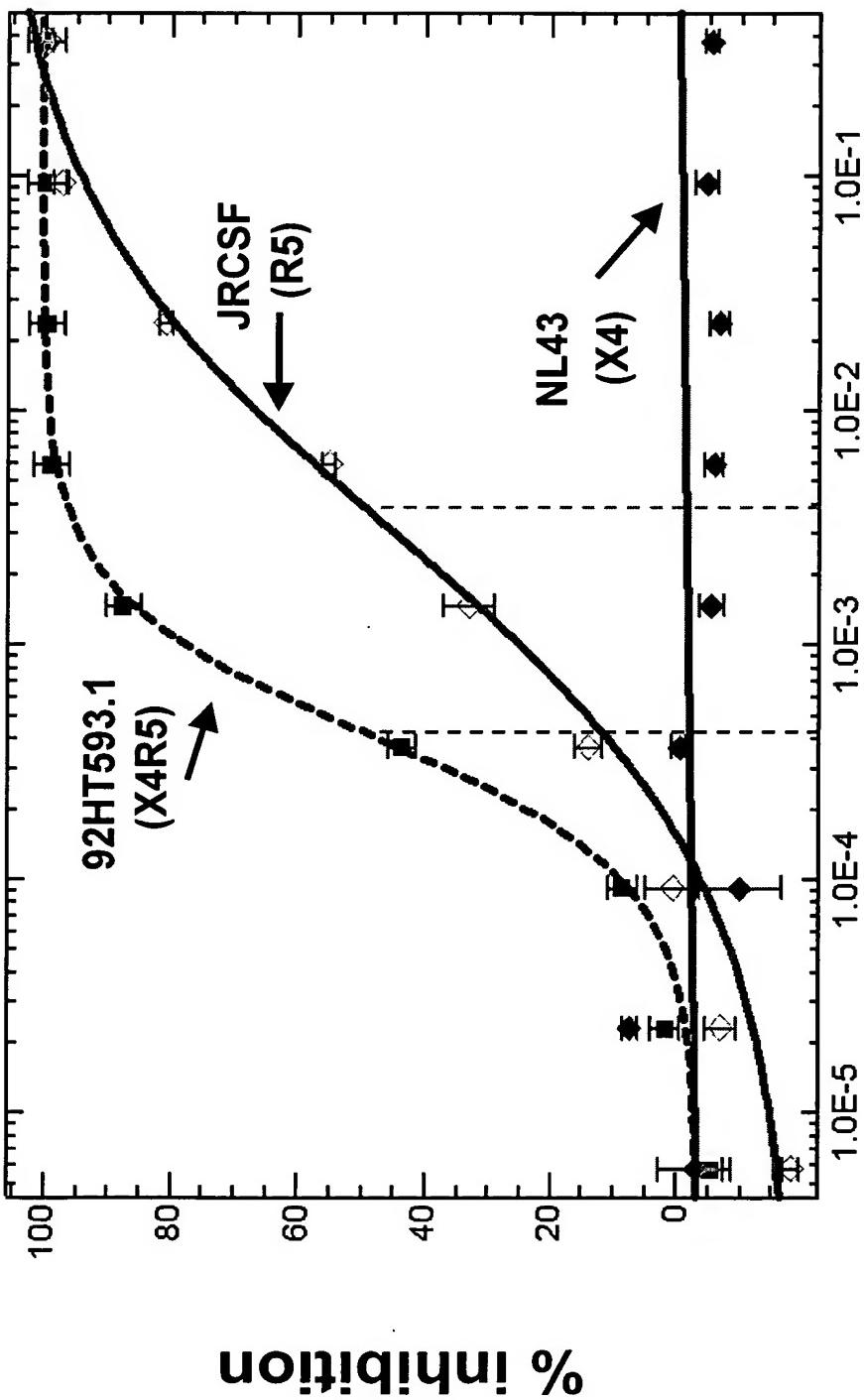
Fig. 4B



Entry Inhibitor Susceptibility: CCR5 Inhibitor

SEP 25 2002

Fig. 5A

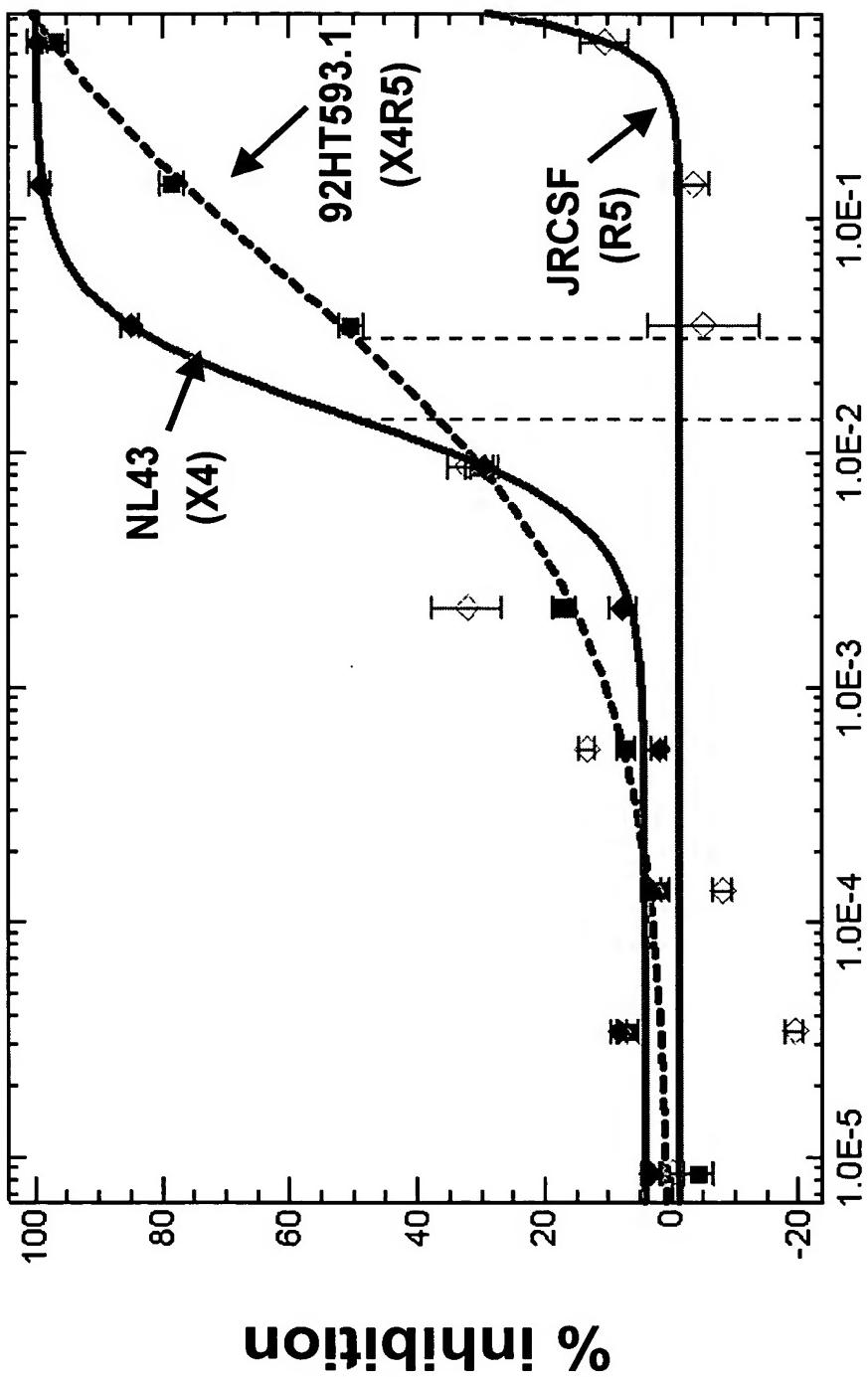


Drug: R5 Inhibitor
Cell: CD4/CCR5

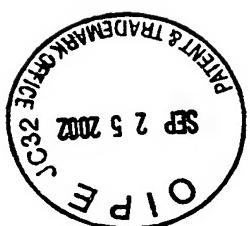


Entry Inhibitor Susceptibility: CXCR4 Inhibitor

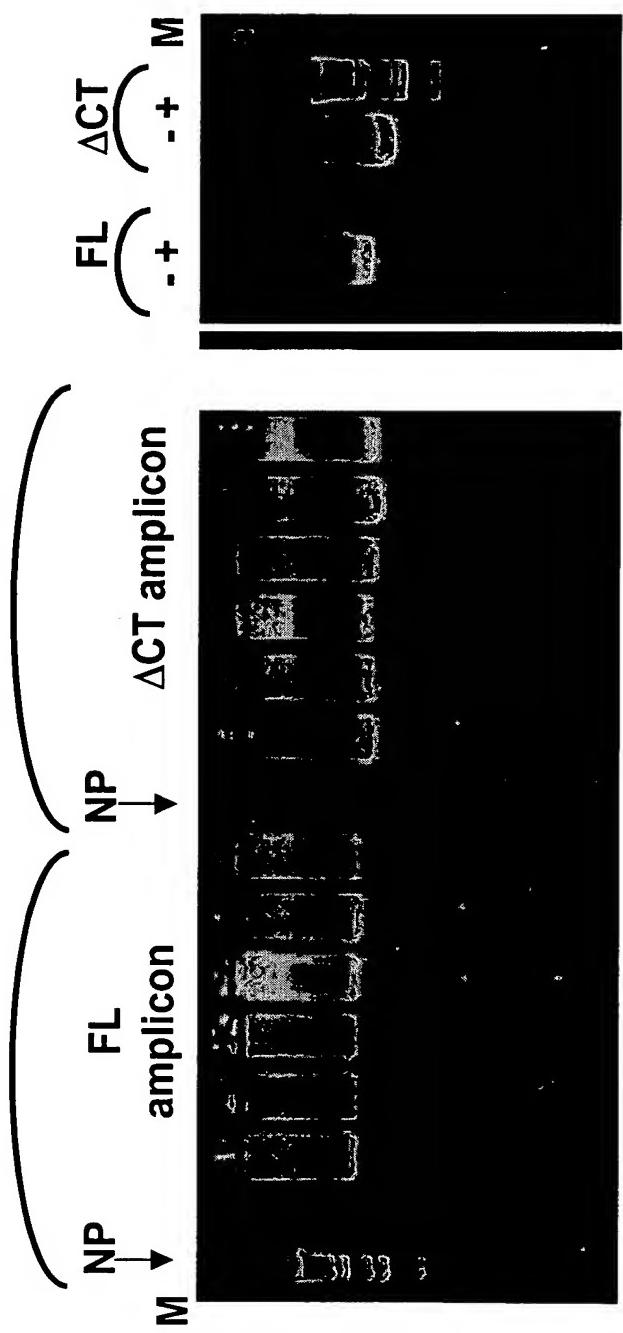
Fig. 5B



Drug: X4 Inhibitor
Cell: CD4/CXCR4



Envelope Sequence Amplification

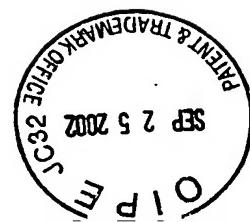


NP: HIV
negative plasma

	1	2	3	4	5	6	<u>Co-Receptor Tropism</u>	<u># of isolates</u>
X4							X4	15
R5							R5	24
X4/R5							X4/R5	15
Undefined							Undefined	35

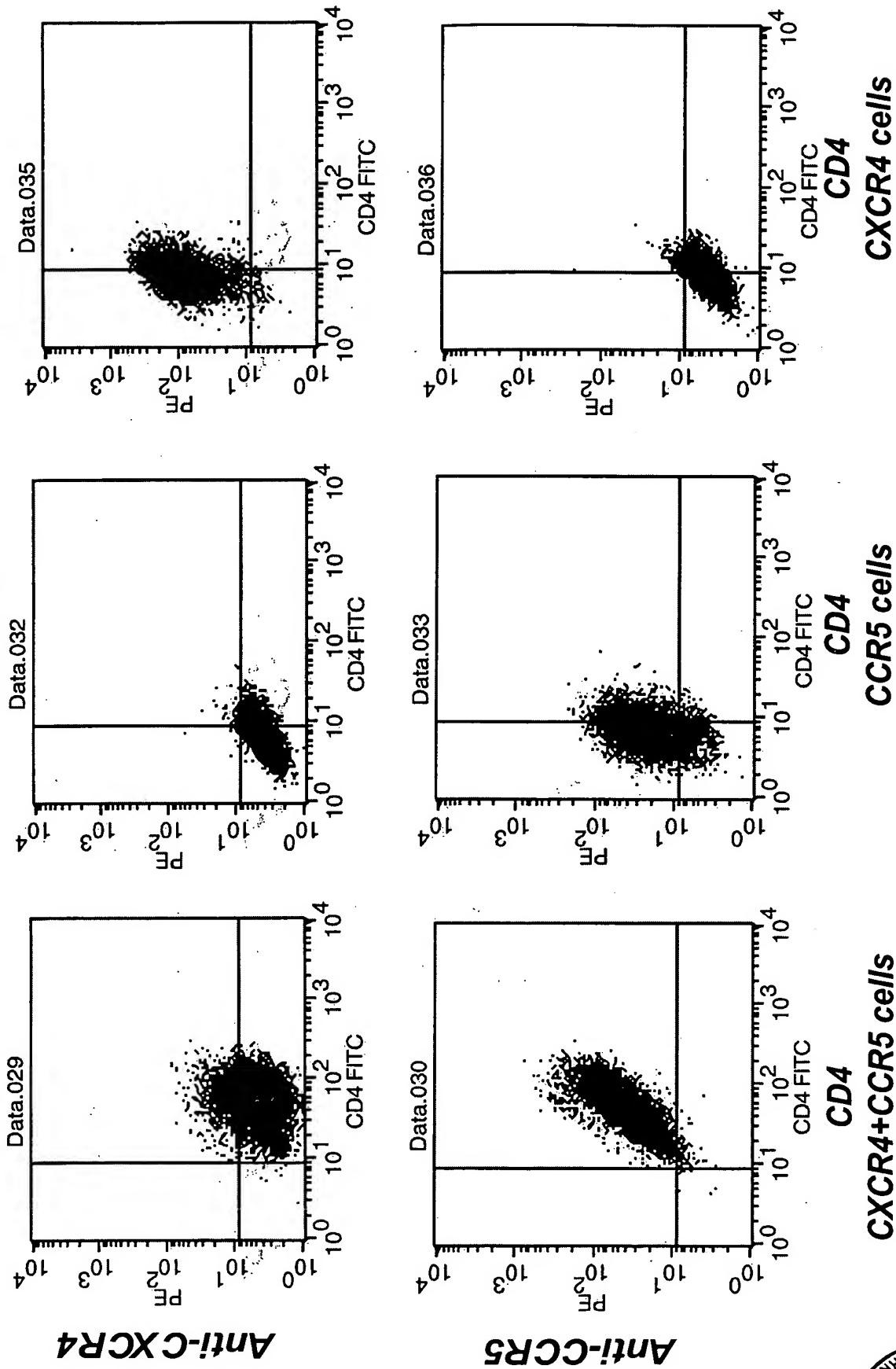
<u>Envelope Subtype</u>	<u># of isolate</u>
Clade A	2
Clade B	76
Clade C	7
Clade D	1
Clade E	3

Fig. 6



Target Cell Receptor and Co-Receptor Expression

Fig. 7



Inhibition By Co-Receptor Antagonists

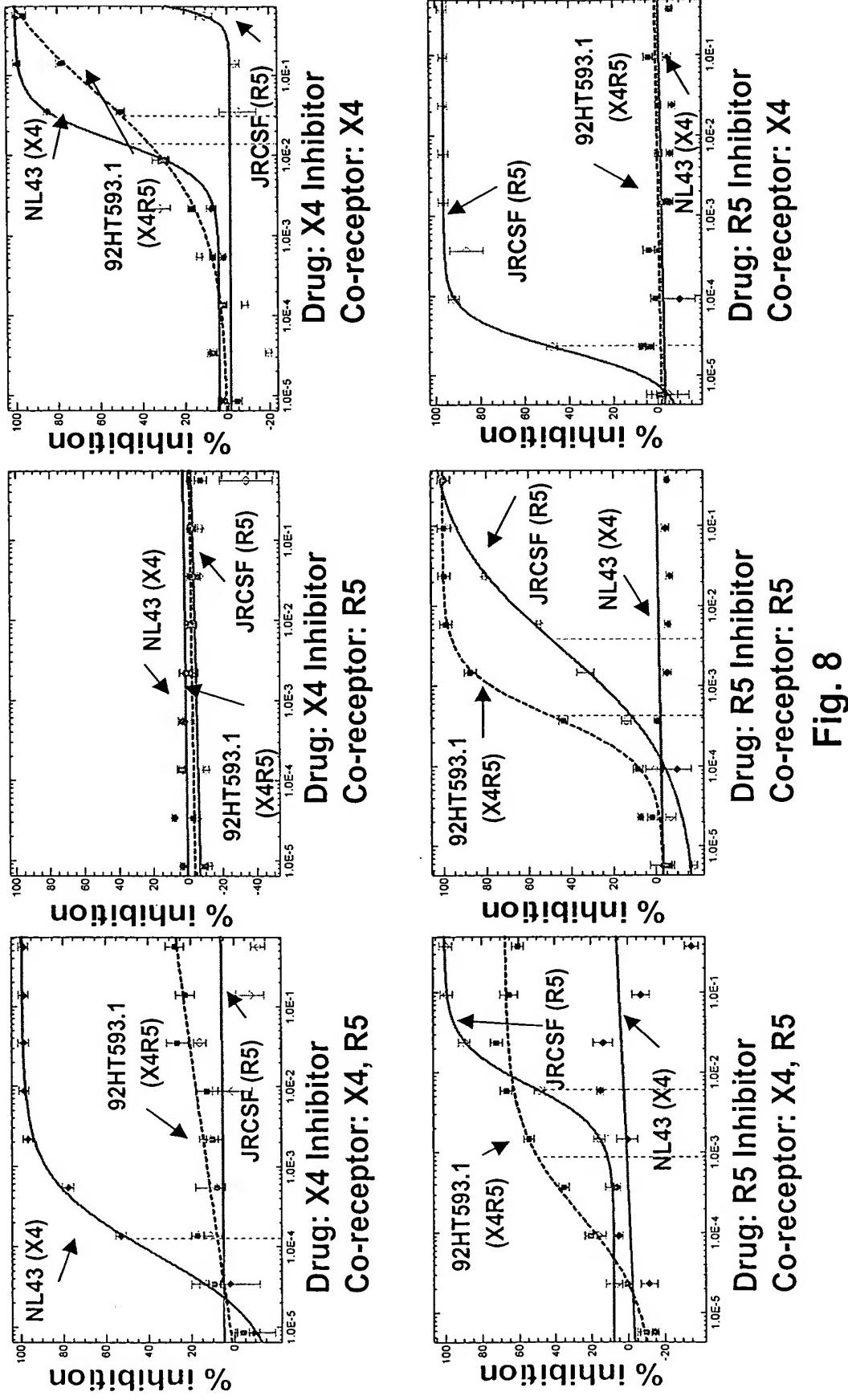
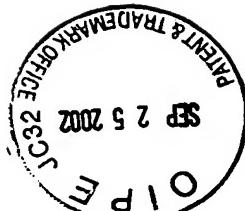
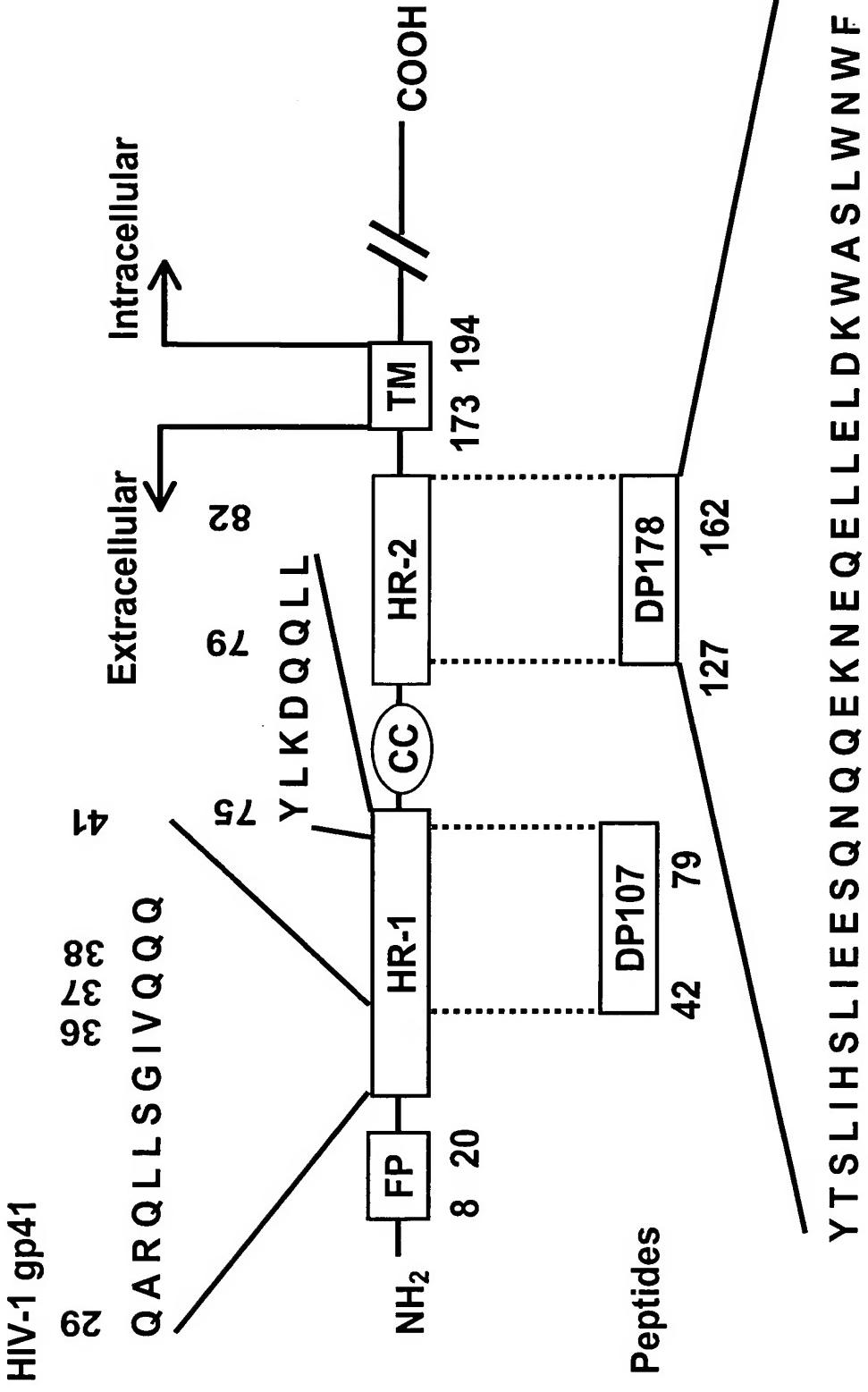


Fig. 8

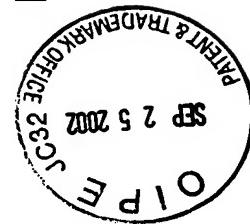


Fusion Inhibitor Peptides



Rimsky, et al., J. Virol. 72 (2):986-993

Fig. 9



Patient Virus v. Patient Antibody

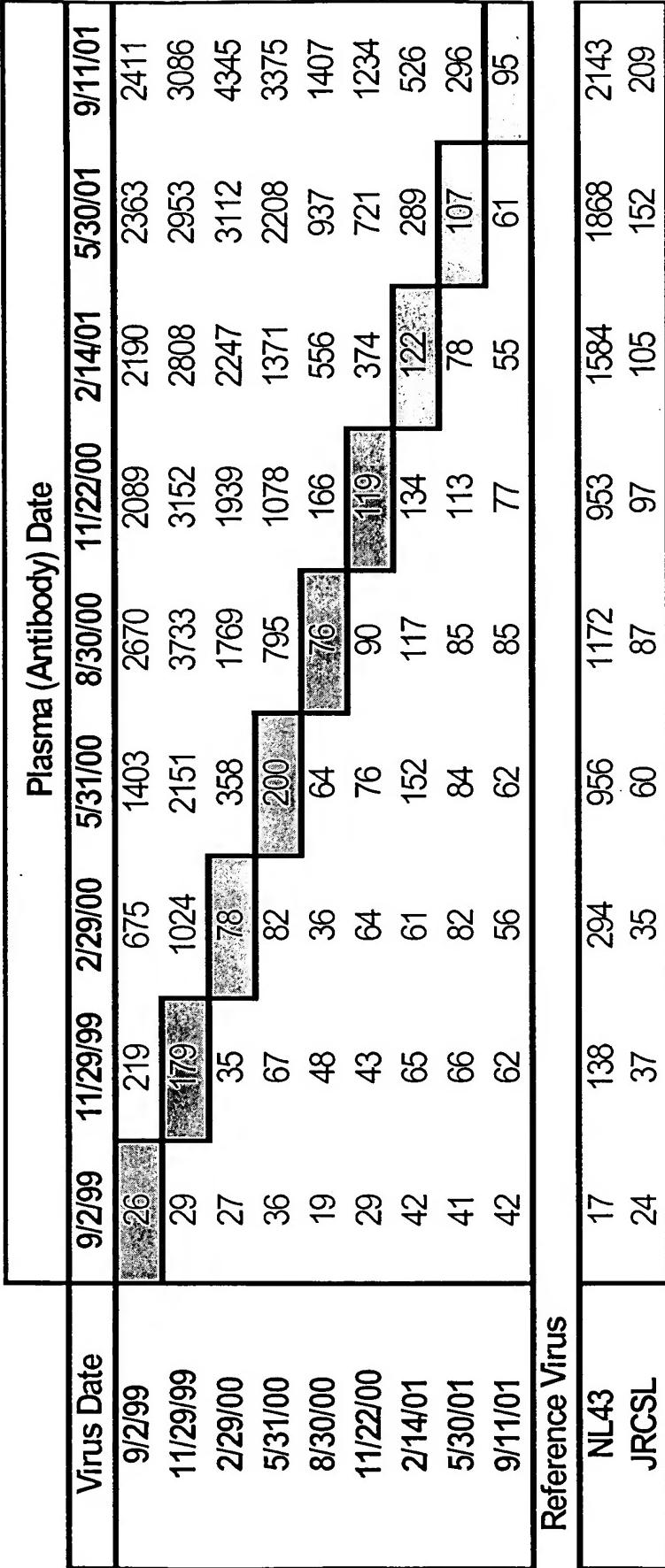


Fig. 10

